Amendments to the Claims:

The following list of claims will replace all prior versions, and listings, of claims in the application. Claims 11, 16, 18 and 23 have been amended. Claims 6-10 and 25 have been canceled without prejudice. New claim 26 has been added. Applicants respectfully submit that the amendments to the claims have been made to comply with requirements of a previous office action and/or to place the rejected claims in a better form for consideration on appeal. Applicants respectfully request the Examiner to enter the following amendments.

1. (Previously Presented) A load coil for insertion along a local loop, the load coil comprising:

a coupled inductor having first and second windings wrapped about an inductor core, each winding having an input and an output, the coupled inductor configured to counteract a parallel capacitance of the local loop to improve transmission of POTS-band signals across the local loop, wherein the first and second windings have an inter-winding capacitance value between them;

a first capacitive element disposed between the input of the first winding and the input of the second winding; and

a second capacitive element disposed between the output of the first winding and the output of the second winding, wherein the first capacitive element and the second capacitive element each have capacitance values that are at least four times the inter-winding capacitance value between the first winding and the second winding to permit passage of DSL signals across the load coil.

2. (Previously Presented) The load coil of claim 1, wherein the first and second capacitive elements each have a capacitance value in the range of 10 nF to 82 nF.

3. (Previously Presented) The load coil of claim 1, wherein the first and second capacitive elements each have a capacitance value in the range of 5 nF to 50 nF.

4. (Original) The load coil of claim 1, wherein the coupled inductor has an inductance of about 66 mH.

5. (Previously Presented) The load coil of claim 1, wherein the first and second capacitive elements increase an effective inter-winding capacitance of the first and second windings by at least a factor of 5.

6-10. Canceled.

11. (Currently Amended) A system for transmitting DSL and POTS signals over a local loop, the system comprising:

a first load coil for disposal along the local loop to condition the POTS signals, the first load coil including a coupled inductor and multiple capacitive elements for increasing an effective capacitance of the coupled inductor, wherein the multiple capacitive elements have capacitance values relative to an interwinding capacitance

value of the coupled inductor to improve transmission of DSL signals across the first load coil; and

a first DSL signal repeater for disposal along the local loop in series with the first load coil to amplify the DSL signals, the first DSL signal repeater including a second load coil for conditioning POTS signals passing there through.

12. (Original) The system for transmitting DSL and POTS signals according to claim 11, wherein the coupled inductor has first and second windings wrapped about an inductor core, each winding having an input and an output, the multiple capacitive elements further comprising:

a first capacitive element being disposed between the input of the first winding and the input of the second winding; and

a second capacitive element disposed between the output of the first winding and the output of the second winding.

13. (Original) The system for transmitting DSL and POTS signals according to claim 11, wherein the coupled inductor has first and second windings wrapped about an inductor core, the multiple capacitive elements further comprising:

a first capacitive element disposed in parallel with the first winding; and

a second capacitive element disposed in parallel with the second winding.

14. (Previously Presented) The system for transmitting DSL and POTS signals according to claim 11, wherein each capacitive element has a capacitance value between 10 nF – 82 nF.

15. (Previously Presented) The system for transmitting DSL and POTS signals according to claim 11, wherein each capacitive element has a capacitance value between 5 nF – 50 nF.

16. (Currently Amended) A load coil coupled to a local loop for improving simultaneous transmission of POTS and DSL signals across the local loop in any direction, the load coil comprising:

inductive means for conditioning the POTS signals as they traverse the local loop; and

capacitive means for having a capacitance value relative to a capacitance value of the inductive means, the capacitive means coupled to the inductive means for permitting the DSL signals to pass across the load coil, wherein the capacitive means ~~to~~ electrically connected in ~~series~~ parallel with an inter-winding capacitance of the inductive means.

17. (Previously Presented) A system for transmitting DSL and POTS signals over a local loop, the system comprising:

load coil means positioned along the local loop, the load coil means comprising inductive means for conditioning POTS signals as they traverse the local loop and capacitive means having capacitance values relative to an inter-winding capacitance value of the inductive means coupled to the inductive means for facilitating passage of DSL signals across the load coil; and

DSL signal amplification means positioned along the local loop for amplifying DSL signals as they traverse the local loop.

18. (Currently Amended) A method for improving simultaneous transmission of POTS-band signals and DSL signals across a local loop, comprising:

inductively coupling a first segment of the local loop to a second segment of the local loop via a coupled inductor to condition the POTS-band signals traversing the local loop;

capacitively coupling the first segment of the local loop to the second segment of the local loop via capacitive elements to pass the DSL signals traversing the local loop with low attenuation, the capacitive elements having capacitance values that are selected based upon a capacitance value of the coupled inductor; and

amplifying the DSL signals between the first segment of the local loop and ~~the second~~ a third segment of the local loop but after the coupled inductor and the capacitive elements.

19. (Original) The method of claim 18, wherein the step of inductively coupling includes coupling a first wire of the first segment of the local loop to a first wire of the second segment of the local loop via a first inductor winding wrapped about an inductor core, and coupling a second wire of the first segment of the local loop to a second wire of the second segment of the local loop via a second inductor winding wrapped about the inductor core.

20. (Previously Presented) The method of claim 19, wherein the step of capacitively coupling includes coupling a first wire of the first segment of the local loop to a second wire of the second segment of the local loop via a first capacitive element, and coupling a second wire of the first segment of the local loop to a first wire of the second segment of the local loop via a second capacitive element.

21. (Original) The method of claim 18, wherein the step of capacitively coupling includes coupling a first wire of the first segment of the local loop to a first wire of the second segment of the local loop via a first capacitive element, and coupling a second wire of the first segment of the local loop to a second wire of the second segment of the local loop via a second capacitive element.

22. (Previously Presented) A system to improve simultaneous transmission of POTS-band signals and DSL signals across a local loop, the system comprising:

a first local loop, the first local loop including

a first wire, and

a second wire;

a second local loop, the second local loop including

a third wire, and

a fourth wire;

a coupled inductor configured to condition the POTS-band signals traversing the first and second local loops, the coupled inductor including

an inductor core,

a first inductor winding wrapped about the inductor core and coupling the first wire to the third wire, and

a second inductor winding wrapped about the inductor core and coupling the second wire to the fourth wire; and

capacitive elements configured to pass the DSL signals traversing the first and second local loops, the capacitive elements including

a first capacitor coupling the first wire to the fourth wire, and

a second capacitor coupling the second wire to the third wire, wherein the first capacitor and the second capacitor have capacitance values that are at least four times an inter-winding capacitance value between the first inductor winding and the second inductor winding.

23. (Currently Amended) A system to improve simultaneous transmission of POTS-band signals and DSL signals across a local loop, the system comprising:

a first local loop, the first local loop including

a first wire, and

a second wire;

a second local loop, the second local loop including

a third wire, and

a fourth wire;

a coupled inductor configured to condition the POTS-band signals traversing the first and second local loops, the coupled inductor including

an inductor core,

a first inductor winding wrapped about the inductor core and coupling the first wire to the third wire, and

a second inductor winding wrapped about the inductor core and coupling the second wire to the fourth wire; and

capacitive elements configured to pass the DSL signals traversing the first and second local loops, the capacitive elements including

a first capacitor coupling the first wire to the fourth wire, and

a second capacitor coupling the second wire to the third wire, wherein the first capacitive element ~~to~~ electrically connects in parallel~~series~~ with the inter-winding capacitance ~~of~~ between the first inductor winding and the second inductor winding.

24. (Previously Presented) The load coil of claim 1, wherein the first and second capacitive elements each have a capacitance value at least five times the inter-winding capacitance value between the first winding and the second winding.

25. (Canceled)

26. (New) A method, comprising:

passing a first type of signal having a frequency greater than twenty kilohertz of across a coupled load coil that has a first winding, a second winding and a capacitive element disposed in parallel with an inter-winding capacitance between the first winding and the second winding; and

passing a second type of signal in a voice frequency range across the load coil at the same time as the first type of signal pass through the load coil regardless of whether the second type of signal was transmitted in the same direction in relation to the load coil as the first signal, wherein the capacitive element has a capacitance value that is at least four times the inter-winding capacitance value between the first winding and the second winding to permit passage of the first type of signal across the load coil at the same time as the second type of signal.